Work Orde <i>May-27-13 12:4</i>		2167	·	*10	21	67*						Page 1
Item ID: Revision ID:	D4148-041		A	Accept	*	N900	040	100)* s	etup Star	I VI	S1*
	Crosstube Lug	Assembly, Fwd			į					Stop	*N	S2*
Start Date:	5/27/13	Start Qty: 2.00	*2*			Cust Item I	D :					
Required Date:	5/27/13	Req'd Qty: 2.00	*2*			Customer:			* .			
Reference:		·	•	•			-		_	~ :		i
Approvals:	Process Plan	n: _ <i>从</i> レブ	Date: /3-05-30	Tooling:		D:	ate:		R	un Star	1/7	R1*
	QC:		Date:	SPC (Y/N):	-+	D	ate:			Stop	` *N	R2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours		Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revi	ision Nbr										
D4148	D	!			<u>)</u>							
100				0.00	1				01			
1 <u>0</u> 0				0.00	•				at_			J30
Small Fab Small Fab		Memo I- Assemble	as nor dwa	0.00								
Small rav		1- Assemble	as per dwg		i I							
110		QC5- Inspect part compl	eteness to step on W/O	0.00								1
110		Qes inspect part compi	eteness to step on w/o	5.00	S				\supset			
QC		Memo		0.00	218							·
Quality Control				130	54					·		!
120		Identify as per dwg & St	ock Location: <u>ST460</u>	0.00					. 1	h /	1 11)	
120 Packaging		Memo		0.00					dX_		ill.	13-06-11

Packaging

										DQA:	Date:		
NCR:	es / No				WORK ORDER NON-C	01	NFORM	MANCE / UPD/					
										QA Closed:	Date:		
Work Orde	à.				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
WOIK OIGE					Rework			Skid-tube	Crosstube	i	Water Jet	Engineering	
Part N	۱o.				Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	Quality	
		-			Use-as-is		Therm	noforming	Finishing	Rec/Sto	re/Packaging	Other	
NCR N	No				Work Order Update			Large Fab	Composite		Supplier		
	1		r	Dagari			Initial	Actio		Sign &		<u> </u>	
Root	D-4-	Char			ption of work order update	1				Date	Verification	QC Inspector	
Cause	Date	Step	Qty	-	or Non-conformance	Cr	ief Eng	Descrip	Hon	Date	verification	QC IIISPECTOI	
Doc/Data								:					
Equip/Tooling	\dashv					Ì							
Operator	_	ļ											
Material	\vdash											, .	
Setup	\vdash											!	
Other	\vdash					1							
Process													
Supplier	\vdash												
Training													
Unapproved		i	<u>i</u>	<u> </u>	E	<u> </u>	T CATE	GORY		<u> </u>	<u> </u>	L	
Landi	ng Gear				General	-01	- CATE						
Landi	Bendin	3			Bend	Г	Grain			Ovalized		Pressure/Forced	
	_	o Not Conce	ntric to		BOM/Route	H	Hardwa	re		Over/Under	tolerance	Temperature/Cure	
	Cracks			**	Broken/Damaged	┢	-	on Incomplete		Part Incorre		Weld	
	├ ─	hed/Crimped Burrs				Instructions Incomplete/Unclear				Part Lost/Mi	ssing	Wrong Stock Pulled	
	Cuffs				Contamination	Maintenance				Part Moved	-	•	
	Heat Tr	eat			Countersink	Mislabeled				Positioned Wrong			
	H	Inspection Strip in Tube Cut Too Short					Misread	Í		Power Loss/Surge Other			

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

102167

Page 2

May-27-13 12:-	40:34 PM												
Item ID: Revision ID:	D4148-04	1		Accept	*N900	040	100)* s	etup Sta	rt	*N.	S1*	
Item Name:	Crosstube L	ug Assembly, Fwd							Sto	p	*NS	52*	
Start Date:	5/27/13	Start Qty: 2.00	*2*		Cust Item I	D:							
Required Date:	: 5/27/13	Req'd Qty: 2.00	*2*		Customer:								
Reference:			-										i
Approvals:	Process F	Plan:	Date:	Tooling:	D:	ate:		R	tun Sta		*NI	R1*	,
	QC:		Date:	_ SPC (Y/N):	, D	ate:			Sto	p	*NI	R2*	
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty		eject umber	Insp. Stamp	
130		QC21- Final Inspection	- Work Order Release	0.00	ę.			•					į.
130 QC		Memo		0.00				-MU	5 3	<u></u> C	26-L1	<u> </u>	†
Quality Control					,5								

DQA: Date: **WORK ORDER NON-CONFORMANCE / UPDATE** Yes / No NCR: QA Closed: Date: **AGAINST DEPARTMENT/PROCESS DISPOSITION** Work Order: Crosstube Engineering Skid-tube Water Jet Rework Prod. Eng. Coor. Machining Small Fab Part No. Scrap Finishing Rec/Store/Packaging Thermoforming Use-as-is Supplier Work Order Update Large Fab Composite NCR No. Sign & Description of work order update Initial Action Root Verification Chief Eng Description Date Step or Non-conformance Cause Date Qty Doc/Data Equip/Tooling Operator Material Setup

Quality

Other

QC Inspector

Landing Gear General Ovalized Pressure/Forced Bend Grain Bending Temperature/Cure BOM/Route Over/Under tolerance Hardware Centre Not Concentric to O/S Weld Broken/Damaged Inspection Incomplete Part Incorrect Cracks Wrong Stock Pulled Crushed/Crimped Burrs Instructions Incomplete/Unclear Part Lost/Missing Maintenance Part Moved Cuffs Contamination Mislabeled Positioned Wrong Countersink **Heat Treat** Power Loss/Surge Other Misread Cut Too Short Inspection Strip in Tube Offset **Drill Holes** Ripples in Bend Out of Calibration **Torque Waves in Extrusion** Drawing Out of Sequence Turning Sequence Finish

Outside Dimensions

FAULT CATEGORY

Wave/Twist in Tube

Folio

Other Process Supplier Training Unapproved

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

May-27-13 12:40:33 PM

Work Order ID:

102167

Parent Item:

D4148-041

Parent Item Name:

Crosstube Lug Assembly, Fwd

Start Date: 5/27/13

Required Date: 5/27/13

Start Qty: 2.00

Required Qty: 2.00

Comments:

IPP Rev:A 10.06.24 new issue DD verf:EC

IPP Rev:B 10.07.22 as per revB DD verf:JLM

IPP Rev:C 10.10.29 as per revC

DD verf:EC

IPP REV:D 11.03.02 AS PER DWG REV.D DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Date Issued Issued	Status
MS21043-3 Nut		Purchased	No			100	Each	1,892.0000	4	4.	2/3/	06/1
				Location		Loc Qty	<u>L</u>	oc Code				
				FG		80)		·			
				103	691	! 80						1
				GA		. 106	,					
				123	899	106	,					
				ST315		1706	,					1
					899	196				- 		1
				124	555	1510				1		/ '/
MS21043-4		Purchased	No			100	Each	1,534.0000	1	6	2/3/3/6	
Nut									· · · · · ·	(6///
				Location		Loc Qty	<u>L</u>	oc Code				•
				FG		36	,			/		
				104	603	36	5					!
				GA		(5					
				121	652	(5					
				ST315		1492					M1258	707
					162	. 2:	5				11125	
					021	:				·		
					525	29				-		المسكام
					900		2					
				125	654	143:	3					

											DQA:	Date:	
NCR:	Yes /	No				WORK ORDER NON-	COI	NFOR	MANCE / UPDATE				
											QA Closed:	Date:	
Work Orde	oŕ.					DISPOSITION	•		AGA	AINST DE	PARTMENT	/PROCESS	· · ·
WOIK OIG	- · · —					Rework	1		Skid-tube Cros	stube	1	Water Jet	Engineering
Part I	No.					Scrap	1		⊢	III Fab	Pro	d. Eng. Coor.	Quality
		-				Use-as-is	1	Thern	noforming Fini	ishing	Rec/Stor	re/Packaging	Other
NCR I	No					Work Order Update			Large Fab Comp	oosite		Supplier] [
	1	,		ı								·	1
Root		_			1	ption of work order update		Initial	Action		Sign &	., .,	
Cause		Date	Step	Qty	•	or Non-conformance	Cr	nief Eng	Description		Date	Verification	QC Inspector
Doc/Data	Щ	·											
Equip/Tooling	Щ						1						
Operator	Ш				 								
Material													
Setup													
Other	Ш												•
Process	Ш						-						
Supplier	Ш												-
Training	Ш												
Unapproved			<u> </u>	<u> </u>			<u> </u>						
						F	AUI	LT CATE	GORY				
Landi	ng Ge	ar			_	General		-	•	_	•	-	7
	∐В	ending			L	Bend	L	Grain			Ovalized		Pressure/Forced
		entre No	ot Concer	ntric to	o/s	BOM/Route	L	Hardwa	re	<u> </u>	Over/Under	tolerance	Temperature/Cure
	∐Cı	racks				Broken/Damaged		Inspecti	ion Incomplete		Part Incorred	ct	Weld
Crushed/Crimped Burrs						Burrs	Instructions Incomplete/Unclear			Part Lost/Missing		Wrong Stock Pulled	
	C	uffs				Contamination		Mainte	enance		Part Moved		
	Пн	Heat Treat Countersink					Г	Mislabe	eled		Positioned W	Vrong	

Misread

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

May-27-13 12:40:33 PM

Work Order ID:	102167								
Parent Item:	D4148-041						Start D	ate: 5/27/13	Required Date: 5/27/13
Parent Item Name:	Crosstube Lug As	sembly, Fwd		•	•		Start	Qty: 2.00	Required Qty: 2.00
D2690-6 Lanyard Assembly		Manufactured	No		100	Each	38.0000	1	2 53/06/11
				Location	Loc Oty		Loc Code		
				ST014	. ,38	,			
				100513	6	i		_2	
				101075	14				
				94775	9	•			<u> </u>
				95935	1				
				99808	8				- // /
3910-1		Manufactured	No		100	Each	48.0000	1	2
rosstube Lug					÷				
				Location	Loc Oty	4	Loc Code		
<u>, </u>				ST464	} 48	}		_	
•	•			100342	40			2	
•		•		81474	1 2				
				89772	<u>f</u> 1				
				93755	' 5	;			_
4091-1		Manufactured	No		100	Each	61.0000	1	2 () 2 /2
ounting Lug									13/6/
<i>5</i> c				Location	Loc Qty		Loc Code		
v .				ST144	61				
				100346	4(
				. 97517	21			2	
4148-1		Manufactured	No		100	Each	31.0000	2	
rosstube Lug Plate, Fw	ıd	Manufactured	: 10		100	Lucii	31.0000	-	- (S/3/K/
lossiabe Lug riale, Pw	,				• ~				
		٠		Location	Loc Qty		Loc Code		
				ST145	3			- 1	_ ′
				100297	. 2:			<u> </u>	<u> </u>
				85753	2				_
				97907	4	1			<u> </u>

											DQA:	Date:	
NCR: Y	es /	No				WORK ORDER NON-	-COI	VFOR	MANCE / UP	DATE	OA Clasad	Data	
								<u> </u>			QA Closed:	Date:	;
Work Orde	ŕ:					DISPOSITION				AGAINST DE	EPARTMENT,	/PROCESS	
Part N						Rework Scrap		ļ	Skid-tube Machining	Crosstube Small Fab Finishing		Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR N	0		*			Use-as-is Work Order Update			noforming Large Fab	Composite	, Rec/stol	Supplier	- Other
Root	,				Descri	iption of work order update		nitial	Ac	tion	Sign &		
Cause	D	ate	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
oc/Data quip/Tooling Derator Material etup Other Process Supplier Training													
паррточец				1			FAUL	T CATE	GORY			ļ	
Landin	ng Gear					General							
	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion					Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing		Instruct Mainte Mislabe Misread Offset	ion Incomplete ions Incomplete/ enance eled	Unclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct sissing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
	_	Turning Sequence Finish						Out of S	Sequence				

Outside Dimensions

Wave/Twist in Tube

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

May-27-13 12:40:34 PM

Work Order ID:	102167							.	D . 5/07/13	D
Parent Item:	D4148-041								Date: 5/27/13	Required Date: 5/27/13
Parent Item Name:	Crosstube Lug Assen	nbly, Fwd			· •			Start	Qty: 2.00	Required Oty: 2.00
D4148-3 Stud Receiver, Lower	,	Manufactured	No		100	ı	Each	28.0000	1	2 6 06/
	•			Location	<u>L</u>	oc Oty		Loc Code		
				ST145		28			<u></u>	
				100534	ļ	20				
				97610		8			_	- 0/
D4148-5		Manufactured	No		100)	Each	27.0000	1	2 ///
Eyebolt Stud										
				Location	<u>L</u>	oc Qty		Loc Code	•	
				ST145	1	27				
				100497	,	20				
				97587		1				
				99176		6				- //
AN3C12A		Purchased	No		10)	Each	173.0000	2	4 1 1 10
Bolts										
				Location	Ţ	oc Qty		Loc Code		
				ST351		173				_/
				123648	3	5				
				124561		141				
				124858		2				
				m1257		25				
AN4C13A BOLT		Purchased	No		10)	Each	240.0000	3	6 1/3/16
				Location	<u>1</u>	oc Oty		Loc Code		7 7/
				ST356		135				
				123900		3			· ———	
				m1257	09	132			_6	<u> </u>
				ST514		103				
				12480	5	103				
				ST516	•	2				
				12421:	5	2				

										DQA:	Date	e:
NCR: Y	es / No				WORK ORDER NON-C	O	NFORM	MANCE / UPDATE				* **
					·			_	<u>-</u>	QA Closed:	Date	2:
Work Orde	er:	-			DISPOSITION			AGAII	NST DE	PARTMENT	/PROCESS	
Part N	lo				Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Crossto Machining Small noforming Finish Large Fab Compos	Fab	-4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descri	ption of work order update	Ī	nitial	Action		Sign &	· · · · ·	
Cause	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Description		Date	Verification	QC Inspector
Doc/Data												ļ
Equip/Tooling												
Operator										ļ	-	
Material								•				
Setup												
Other												
Process												
Supplier		İ			•							Ì
Training												
Unapproved												
					F	AUL	T CATE	GORY				
Landi	ng Gear				General		-			•	_	_
	Bendin	g			Bend		Grain			Ovalized		Pressure/Forced
	Centre	Not Conce	ntric to	o/s	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct	Weld
	Crushe	d/Crimped			Burrs	L	Instruct	ions Incomplete/Unclear	L	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination		Mainte	nance		Part Moved		
	Heat Tr	eat			Countersink	Mislabeled			Positioned V	Vrong	- -	
	Inspect	ion Strip ir	Tube		Cut Too Short		Misread			Power Loss/	Surge	Other
	Ripples	in Bend		Γ	Drill Holes	Offset						

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

May-27-13 12:40:34 PM

Work Order ID: Parent Item:	102167 D4148-041							Start I	Date: 5/27/13	Required Date: 5/27/13
Parent Item Name:	Crosstube Lug Ass	sembly, Fwd				•		Start	Qty: 2.00	Required-Qty: 2.00
MS17984-C413 PIN, QUICK RELEASE	·	Purchased	No		· · ·	100	Each	4.0000	1	2 3/06/11
		٠.		Location	1	Loc Ot	<u>v</u>	Loc Code		
•				ST332		•	2 .		· · · · · · · · · · · · · · · · · · ·	
					118612		2	•		_ MBS
				ST508			2		***************************************	
					124231		2		-	- 0
MS20615-4M18 Rivet		Purchased	No			100	Each	674.0000	8	16 50/06/
		•		Location	1	Loc Qt	v	Loc Code		
				GA	-		7			
				-	122452	1	7			*
				ST312		60	67			
					124331		15		3	<u> </u>
					125162		97		75	_
		•			125654		55		_/3_	- <i>///</i> /
NAS1149C0332R Washer		Purchased	No			100	Each	14,791.000	4	8 J3/10/11
				Location	<u>1</u>	Loc Ot	Y	Loc Code		
				FP001			64			
					123355		64			_
				ST292		168				_
					123248		18		<u></u>	_
					123759 125268	15:	28 41			_
				ST511	123200	100				
				31311	125654	100				Through the state of the state
				ST517	123037	284				
ř				31317	124580	28				_
						20				·

DQA:	Date:	
DQA:	Date:	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

	•									QA Closed:	Date	<u>:</u>
Work Orde	֥				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part N	o				Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	-	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descr	ription of work order update	T	Initial	Ac	ction	Sign &		
Cause	Date	Step	Qty		or Non-conformance		nief Eng		cription	Date	Verification	QC Inspector
Doc/Data		· ·			,,,	\top						
quip/Tooling	7											
Operator												•
Material		İ				1						
etup												
Other												
rocess												}
Supplier												
Training	•											
Jnapproved												
						FAUI	LT CATE	GORY				<u> </u>
Landin	g Gear			_	General		-			_	_	_
	Bending				Bend		Grain		_	Ovalized		Pressure/Forced
	Centre No	ot Conce	ntric to	o/s	BOM/Route	L	Hardwa	ire		Over/Under	tolerance	Temperature/Cure
L	Cracks			_	Broken/Damaged		Inspect	ion Incomplete		Part Incorred	ct	Weld
	Crushed/	Crimped			Burrs	L	-	ions Incomplete/	/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination		Mainte	enance	L	Part Moved		
	Heat Trea	at			Countersink		Mislabe	eled	<u></u>	Positioned V		¬
	Inspectio	n Strip in	Tube	L	Cut Too Short	_	Misread	d		Power Loss/	Surge	Other
	Ripples in Bend Drill Holes				Offset							
. [Torque Waves in Extrusion Drawing				Out of Calibration							
Ĺ	Turning Sequence Finish				Out of Sequence							
	Wave/Twist in Tube Folio				1	Outside	Dimensions					

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Picklist Print

May-27-13 12:40:34 PM

Page 5

Work Order ID:

102167

Parent Item:

D4148-041

Parent Item Name:

Crosstube Lug Assembly, Fwd

NAS1149C0432R

Purchased

No

Start Date: 5/27/13

Required Date: 5/27/13

Start Qty: 2.00

Required Qty: 2.00

Washer

Location ST292 119124

122441

Loc Qty 1314

1308

Each

100

Loc Code

1,314.0000

M 125807

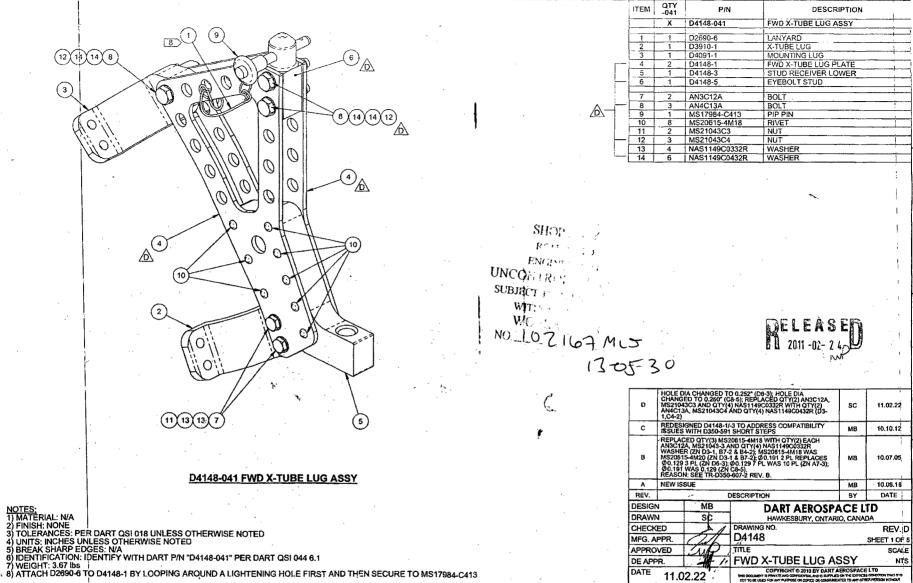


again na ay w							•					DQA:	Date		
NCR:	'es	/ No					WORK ORDER NON-	O	NFORM	MANCE / UPI	DATE	QA Closed:	 Date:		
Work Order:							DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part No.							Rework Scrap		Skid-tube Crosstube Machining Small Fab			4	Water Jet d. Eng. Coor.	Engineering Quality	
NCR No.							Use-as-is Work Order Update		Thermoforming Finishing Large Fab Composite			Rec/Stor	e/Packaging Supplier	Other	
Root Cause		Date	Step	Qty	Des		otion of work order update		nitial ief Eng	Act Descr	ion iption	Sign & Date	Verification	QC Inspector	
oc/Data quip/Tooling perator laterial etup tther rocess upplier raining napproved		J	3.09	Qty											
FAULT CATEGORY															
Landi		Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion					General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing		Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offset Out of Calibration			Ovalized Pressure/Forced Over/Under tolerance Temperature/Cure Part Incorrect Weld Part Lost/Missing Wrong Stock Pulled Part Moved Positioned Wrong Power Loss/Surge Other			
	Turning Sequence					l	Finish	1	Out of Sequence						

Outside Dimensions

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Wave/Twist in Tube



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DE APPR. DATE 11.02.22

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